

# Fluor-B&W Portsmouth

## SSAB Subcommittee Working Session

**Engineering Evaluation/Cost Analysis for the Plant  
Support Buildings and Structures at the  
Portsmouth Gaseous Diffusion Plant, Piketon,  
Ohio**

*May 24, 2011*

# Meeting Agenda



- Purpose of the meeting.
  - A working session was requested by the Future D&D and Recycling subcommittee to review the *Engineering Evaluation/Cost Analysis for the Plant Support Buildings and Structures at the Portsmouth Gaseous Diffusion Plant*.
- Topics to Discuss.
  - Purpose of the EE/CA.
  - Buildings and Structures being evaluated.
  - Alternatives being evaluated.
  - Anticipated Waste Types and Amounts.
  - Demolition Alternative Provisions.
  - Evaluation Results.
- Next Steps.
  - Ohio EPA Approval.
  - Support through public comment period.
  - Issue Action Memorandum and begin developing Work Plans.

# What is the purpose of this EE/CA?



- Presents the removal action alternatives under CERCLA and DFF&O.
- Describes the risk if no action is taken.
- Determines the cost and impacts of the removal action alternatives.

# What is being evaluated?



- 46 support buildings and structures.
  - most likely ready for demolition in the next few years.
  - have no government-identified future use.

Building Number	Building Name	Building Number	Building Name
X-100	Administration Building	X-611	Water Treatment Plant
X-100B	Air Conditioner Equipment Building	X-611C	Filter Building
X-101	Dispensary	X-611D	Recarbonization Instrumentation Building
X-102	Cafeteria	X-611E	Clear Well and Chlorine Building
X-104	Guard Headquarters	X-612	Elevated Storage Tank
X-106	Tactical Response Building	X-614A	Sewage Pumping Station
X-106C	New Fire Training Building	X-614B	Sewage Pumping Station
X-108H	Pike Avenue Portal	X-618	North Holding Pond Storage Building
X-109A	Personnel Monitoring Station	X-621	Coal Pile Treatment Facility
X-109B	Personnel Monitoring Station	X-624-1	Decontamination Pad
X-109C	Personnel Monitoring Station	X-640-1	Fire Water Pump House
X-343	Feed Vaporization and Sampling Building	X-640-2	Elevated Storage Tank
X-530A	High Voltage Switch Yard	X-735A	Landfill Utility Building
X-530B	Switch House	X-743	Lumber Storage Facility
X-530C	Test and Repair Building	X-744B	Salt Storage Building
X-530D	Oil House	X-744G	Bulk Storage Building
X-530E	Valve House	X-744H	Bulk Storage Building
X-530F	Valve House	X-744J	Bulk Storage Building
X-600	Steam Plant	X-744L	Stores and Maintenance Warehouse
X-600B	Steam Plant Shop Building	X-744S	Warehouse S Non-UEA
X-600C	Ash Wash Treatment Building	X-744W	Surplus and Salvage Warehouse
		X-750	Mobile Equipment Maintenance Shop
		X-750A	Garage Storage Building
		X-752	Warehouse
		X-752AT 1-5	Trailer Complex

# Support Buildings and Structures



# What is being evaluated?



- Two alternatives considered.
  - No Action: No surveillance & maintenance, structure deteriorates in place, final disposition of contaminants would not occur.
  - Demolition: Demolish buildings, size reduce or treat waste, dispose of waste offsite, reduce risk to human health and the environment.
- Contaminants of concern are PCBs, radionuclides, some heavy metals, and asbestos.
  - If left in place, these contaminants could be released to the environment causing an unacceptable risk to humans and the environment.



# Anticipated Removal Action Wastes



Waste Type	Estimated Volume (cf)	Estimated Weight (tons)
Sanitary/industrial	3,168,046	136,597
Low-Level (radioactive) Waste	101,671	7,813
Mixed Low-Level (radioactive) Waste	11,402	856
RCRA Waste	634	39
TSCA Waste	69,891	3,470

Source: Appendix A to this EE/CA

RCRA = Resource Conservation and Recovery Act

TSCA = Toxic Substances Control Act of 1976

# Demolition Alternative Provisions



- Recycle any waste stream or reuse any equipment, etc., if a vendor or a user is identified.
- Remove any building from the demolition decision if it is determined to be clean or if decontamination is feasible, so that no restrictions on its future use are required.
- Allows for on-site waste disposal of appropriate waste streams, if an on-site disposal cell is approved.



# Demolition Alternative Evaluation



- Determined to be protective of future users of the site.
- Determined to comply with all applicable or relevant and appropriate rules and regulations.
- Determined to be implementable.
- Need to transport more than 100,000 cy of waste across the United States for disposal.
- Costs estimated to demolish and dispose of the buildings to be roughly \$66 million.

# Next Steps



- Provide continued support to the SSAB.
- Accept formal public comments over a 30-day period beginning in mid-June (tentative).
- Issue an Action Memorandum in September (target) to document the selected removal action alternative.
- Develop Removal Action Work Plans to design, sequence, and schedule the work over the next several years of implementation.